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## INDEX TO AMERICAN BOTANICAL LITERATURE

1918-1919

The aim of this Index is to include all current botanical literature written by Americans, published in America, or based upon American material; the word America being used in the broadest sense.

Reviews, and papers that relate exclusively to forestry, agriculture, horticulture, manufactured products of vegetable origin, or laboratory methods are not included, and no attempt is made to index the literature of bacteriology. An occasional exception is made in favor of some paper appearing in an American periodical which is devoted wholly to botany. Reprints are not mentioned unless they differ from the original in some important particular. If users of the Index will call the attention of the editor to errors or omissions, their kindness will be appreciated.

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- Army, A. C., & Hayes, H. K.** Experiments in field technic in plot tests. *Jour. Agr. Research* **15**: 251-262. 28 O 1918.
- Bailey, I. W., & Thompson, W. P.** Additional notes upon the Angiosperms, *Tetracentron*, *Trochodendron* and *Drimys*, in which vessels are absent from the wood. *Ann. Bot.* **32**: 503-512. *pl. 16 + f. 1-5*. O 1918.
- Black, O. F.** Calcium oxalate in the dasheen. *Am. Jour. Bot.* **5**: 447-451. 30 N 1918.
- Bonns, W. W.** Etherization of tissues and its effect on enzyme activity. *Ann. Missouri Bot. Gard.* **5**: 225-299. N 1918.
- Breed, R. S., Conn, H. J., & Baker, J. C.** Comments on the evolution and classification of bacteria. *Jour. Bact.* **3**: 445-459. S 1918.
- Britton, E. G.** Further notes on *Jagerinopsis*, Broth. *Bryologist* **21**: 80. 7 D 1918.
- Britton, E. G.** *Porotrichum* not *Thamnobryum*. *Bryologist* **21**: 83, 84. 7 D 1918.
- Buchanan, R. E.** Studies in the classification and nomenclature of the bacteria—VIII. The subgroups and genera of the Actinomycetales. *Jour. Bact.* **3**: 403-406. J1 1918.—IX. The subgroups and genera of the Thiobacteriales. *Jour. Bact.* **3**: 461-474. S 1918.

- Buck, F. E.** Our Canadian nut trees. *Ottawa Nat.* **32**: 87-89. N 1918.
- Burnham, S. H.** Charles Horton Peck. *Mycologia* **11**: 33-39. *f. 1*. Ja 1919.
- Burt, E. A.** The Thelephoraceae of North America—X. *Hymenochaete*. *Ann. Missouri Bot. Gard.* **5**: 301-370. *pl. 16, 17 + f. 1-32*. N 1918.
- Cañizares, F. G.** El Jardin Botanico del Instituto de Segunda Enseñanza de la Habana. 1-169. Habana. 1918. [Illust.]  
Contains a list of plants grown in the garden. Many of these plants are illustrated.
- Carsner, E.** Angular-leaf-spot of cucumber: dissemination, overwintering and control. *Jour. Agr. Research* **15**: 201-220. *pi. 13-16 + f. 1-3*. 21 O 1918.
- [**Clute, W. N.**] Note and comment. *Am. Bot.* **24**: 141-153. N 1918.  
Includes notes on A fragrant goldenrod, New use for *Sphagnum*, *Vitis palmata*, Geitonogamy and xenogamy, Age of endemic species, etc.
- [**Clute, W. N.**] Oils, resins and rubbers. *Am. Bot.* **24**: 136-140. N 1918.
- Colón, E. D.** La enfermedad de las rayas. Hechos establecidos y deducciones practicas. Puerto Rico Dep. Agr. Circ. **14**: 1-8. 1918. [Illust.]
- Crocker, W., & Harrington, G. T.** Catalase and oxidase content of seeds in relation to their dormancy, age, viability, and respiration. *Jour. Agr. Research* **15**: 137-174. *f. 1-3*. 21 O 1918.
- Dixon, H. N.** "*Chatubinskia*," a further correction. *Bryologist* **21**: 81, 82. S 1918.
- Durand, E. J.** *Peziza proteana* var. *sparassoides* in America. *Mycologia* **11**: 1-3. *pl. 1*. Ja 1919.
- Emerson, A. I., & Weed, C. M.** Our trees. How to know them. i-xii + 1-295. Philadelphia. 1918.  
5th Ed.
- Emerson, R. A.** A fifth pair of factors,  $A_a$ , for aleurone color in maize, and its relation to the  $C_e$  and  $R_r$  pairs. *Cornell Agr. Exp. Sta. Mem.* **16**: 231-289. *f. 1*. N 1918.
- Fellers, C. R.** The effect of inoculation, fertilizer treatment and certain minerals on the yield, composition and nodule formation of soybeans. *Soil Sci.* **6**: 81-129. *pl. 1-5*. Au 1918.
- Fernald, M. L.** An intergeneric hybrid in the Cyperaceae. *Rhodora* **20**: 189-191. *pl. 125*. 17 D 1918.
- Fernald, M. L.** *Solidago racemosa* Greene, forma *leucantha*, n. f. *Rhodora* **20**: 172. 4 S 1918.

- Fernald, M. L.** The specific validity of *Limosella subulata*. *Rhodora* 20: 160-164. 4 S 1918.
- Fleming, C. E.** Range plants poisonous to sheep and cattle in Nevada. Nevada Agr. Exp. Sta. Bull. 95: 1-51. *pl.* 1-6 + *f.* 1-23. J1 1918.
- Freeman, G. F.** The purple hyacinth bean. *Bot. Gaz.* 66: 512-523. *f.* 1-7. 18 D 1918.
- Gager, C. S.** A brief history of the Botanic Garden idea in Brooklyn. Brooklyn Bot. Gard. Rec. 7: 99-112. *f.* 5-8. O 1918.
- Gardner, M. W.** Anthracnose of cucurbits. U. S. Dept. Agr. Bull. 727: 1-68. *pl.* 1-8 + *f.* 1-15. 18 D 1918.
- Gillespie, L. J., & Hurst, L. A.** Hydrogen-ion concentration—soil type—common potato scab. *Soil Sci.* 6: 219-236. *f.* 1-3. S 1918.
- Goodspeed, T. H.** Modification of hand microtome. *Bot. Gaz.* 66: 534-536. *f.* 1. 18 D 1918.
- Graves, A. H.** Resistance in the American chestnut to the bark disease. *Science* II. 48: 652, 653. 27 D 1918.
- Greaves, J. E.** Azofication. *Soil Sci.* 6: 163-217. *f.* 1, 2. S 1918.
- Griggs, R. F.** The recovery of vegetation at Kodiak. *Ohio Jour. Sci.* 19: 1-57. N 1918. [Illustr.]
- Gundersen, A.** A sketch of plant classification from Theophrastus to the present. *Torreyia* 18: 213-219. 16 D 1918; 231-239. 20 Ja 1919.
- Harris, J. A.** On the osmotic concentration of the tissue fluids of phanerogamic epiphytes. *Am. Jour. Bot.* 5: 490-506. 30 N 1918.
- Harter, L. L., Weimer, J. L., & Adams, J. M. R.** Sweet-potato storage-rots. *Jour. Agr. Research* 15: 337-368. *pl.* 21-27. 11 N 1918.
- Haupt, A. W.** A morphological study of *Pallavicinia Lyellii*. *Bot. Gaz.* 66: 524-533. *pl.* 20-24. 18 D 1918.
- Hoagland, D. R.** The relation of the plant to the reaction of the nutrient solution. *Science* II. 48: 422-425. 25 O 1918.
- Hoffer, G. N., & Holbert, J. R.** Selection of disease-free seed corn. Purdue Agr. Exp. Sta. Bull. 224: 1-16. *f.* 1-20. S 1918.
- Howe, M. A.** The dahlia border. *Jour. N. Y. Bot. Gard.* 19: 291, 292. N 1918.
- Hutchinson, A. H.** Limiting factors in relation to specific ranges of tolerance of forest trees. *Bot. Gaz.* 66: 465-493. *f.* 1-7. 18 D 1918.
- Jennings, O. E.** Notes on the mosses of northwestern Ontario. I. *Sphagnum*. *Bryologist* 21: 69-78. *pl.* 27. 7 D 1918.

- Jones, D. F.** The effects of inbreeding and crossbreeding upon development. Connecticut Agr. Exp. Sta. Bull. 207: 1-100. *pl.* 1-12 + *f.* 1-3. S 1918.
- Kraus, E. J., & Kraybill, H. R.** Vegetation and reproduction with special reference to the tomato. Oregon Agr. Exp. Sta. Bull. 149: 1-90. *f.* 1-22. Ja 1918.
- Lindstrom, E. W.** Chlorophyll inheritance in maize. Cornell Agr. Exp. Sta. Mem. 13: 1-68. *pl.* 1-5. Au 1918.
- Lombard, L. H.** The purple water avens. Am. Bot. 24: 129-131. N 1918.
- Lovell, J. H.** The flower and the bee. i-xvii + 1-286. *f.* 1-119. New York. 1918.
- MacCaughey, V.** The pineapple guava. Am. Bot. 24: 122-125. N 1918.
- MacMillan, H. G.** An epidemic of corn smut following hail. Phytopathology 8: 584, 585. N 1918.
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*Cheilanthes Covillei* and *C. Wootoni*, spp. nov., are described.
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*Polystichum Dudleyi* sp. nov.
- Miller, C. C.** Bud curl of the lemon tree. Month. Bull. State Com. Hort. Calif. 7: 515-519. *f.* 70-74. S 1918.
- Murrill, W. A.** Cuban polypores and agarics. Mycologia 11: 22-32. Ja 1919.
- Nelson, J. C.** Further additions to the flora of western Oregon. Torrey 18: 220-226. 16 D 1918.
- Nelson, J. C.** Some Oregon exotics. Am. Bot. 24: 126-129. N 1918.
- Ness, H.** Hybrids of the live oak and overcup oak. Jour. Heredity 9: 263-268. *f.* 6-8. 13 N 1918.
- Nichols, G. E., & St. John, H.** Pressing plants with double-faced corrugated paper boards. Rhodora 20: 153-160. 4 S 1918.
- Nowell, W.** Diseases of economic plants. West Indian Bull. 17: 96-102. 1918.
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- Osterhout, W. J. V.** Note on the effect of diffusion upon the conductivity of living tissue. *Jour. Biol. Chem.* **36**: 489, 490. D 1918.
- Parks, H. E.** Notes on California fungi. *Mycologia* **11**: 10-21. Ja 1919.
- Pennell, F. W.** The flower of *Agalinis*—a correction. *Rhodora* **20**: 199, 200. 17 D 1918.
- Pennell, F. W.** Notes on plants of the southern United States—IV. *Bull. Torrey Club* **45**: 477-482. 23 D 1918.
- Pérez, B.** Contribución al estudio de la *Caesalpinia melanocarpa* Griseb. *Univ. Tucumán Dept. Invest. Indust.* **6**: 17-24. *f.* 1, 2. 1918.
- Rhoads, A. S.** *Daldinia vernicosa*—a pyroxylophilous fungus. *Mycologia* **10**: 277-284. *pl.* 14 + *f.* 1. 23 N 1918.
- Rixford, G. P.** Smyrna fig culture. *U. S. Dept. Agr. Bull.* **732**: 1-43. *f.* 1-12. 14 N 1918.  
Contains considerable information of interest to botanists.
- Rosen, H. R.** Notes on some methods and terms employed in studying the Uredinales. *Phytopathology* **8**: 581-583. N 1918.
- Rosenbaum, J.** The origin and spread of tomato fruit rots in transit. *Phytopathology* **8**: 572-580. *pl.* 4 + *f.* 1. N 1918.
- Rusby, H. H.** The recognition at sight of poisonous and medicinal properties in unknown plants. *Jour. Am. Pharm. Assoc.* **7**: 770-784. S 1918. [Illust.]
- Rydberg, P. A.** Rosaceae (conclusion). *N. Am. Fl.* **22**: 481-560. 30 D 1918.  
Twenty-three new species in *Rosa* are described.
- Safford, W. E.** *Cosmos sulphureus*, the xochipalli or flower paint of the Aztecs. *Jour. Washington Acad. Sci.* **8**: 613-620. *f.* 1, 2. 19 N 1918.
- Sargent, C. S.** Notes on North American trees.—III. *Tilia*—II. *Bot. Gaz.* **66**: 494-511. 18 D 1918.  
Five new species and many new varieties are described.
- Sempers, J. F.** Germination of wild cucumber seed. *Am. Bot.* **24**: 134, 135. N 1918.
- Shamel, A. D.** Why navel oranges are seedless. *Jour. Heredity* **9**: 246-249. *f.* 1, 2. 13 N 1918.
- Small, J. K.** Botanical exploration in Florida in 1917. *Jour. N. Y. Bot. Gard.* **19**: 279-290. *pl.* 219-222. N 1918.

- Smith, G. M.** Cytological studies in the Protococcales—III. Cell structure and autospore formation in *Tetraedron minimum* (A. Br.) Hansg. Ann. Bot. **32**: 459-464. *pl.* 15. O 1918.
- Soth, B. H.** The arctic fleabane. Am. Bot. **24**: 121, 122. N 1918. [Illust.]
- Soth, B. H.** Rocky mountain food plants. Am. Bot. **24**: 132, 133. N 1918.
- Stakman, E. C., Piemeisel, F. J., & Levine, M. N.** Plasticity of biologic forms of *Puccinia graminis*. Jour. Agr. Research **15**: 221-250. *pl.* 17, 18. 28 O 1918.
- Standley, P. C.** Rubiales. Rubiaceae (pars). N. Am. Fl. **32**: 1-86. 28 D 1918.  
Includes new species in *Portlandia* (2), *Isidorea* (1), *Houstonia* (1), *Neomazoea* (1), *Acrosynanthus* (4), and *Rondeletia* (8).
- Stevens, F. L., & Dalbey, N. E.** New or noteworthy Porto Rican fungi. Mycologia **11**: 4-9. *pl.* 2, 3. Ja 1919.  
Includes the new genera *Septoriopsis* and *Wageria* and new species in *Exosporium* (1), *Ramularia* (1), *Haplographium* (1), *Microclava* (1), *Mycosphaerella* (1), and *Stephanoma* (1).
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- Suksdorf, W.** *Cardamine oligosperma* and its near allies. Rhodora **20**: 197-199. 17 D 1918.
- Tanaka, T.** New Japanese fungi. Notes and translations—V. Mycologia **10**: 285-288. 23 N 1918.
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- Whetzel, H. H.** An outline of the history of phytopathology. 1-130. Philadelphia. 1918. [Illust.]
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